NODE=B145

$\Delta(1750)\ 1/2^+$

$I(J^P) = \frac{3}{2}(\frac{1}{2}^+)$ Status: $*$

OMITTED FROM SUMMARY TABLE

$\Delta(1750)$ POLE POSITION

NODE=B145230

REAL PART

NODE=B145RE
NODE=B145RE

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1748	ARNDT	04	DPWA	$\pi N \to \pi N$, ηN
1714	VRANA	00	DPWA	Multichannel

−2×IMAGINARY PART

NODE=B145IM
NODE=B145IM

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
524	ARNDT	04	DPWA	$\pi N \to \pi N$, ηN
68	VRANA	00	DPWA	Multichannel

$\Delta(1750)$ ELASTIC POLE RESIDUE

NODE=B145235

MODULUS $|r|$

NODE=B145RER
NODE=B145RER

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
48	ARNDT	04	DPWA	$\pi N \to \pi N$, ηN

PHASE θ

NODE=B145IMR
NODE=B145IMR

VALUE (°)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
158	ARNDT	04	DPWA	$\pi N \to \pi N$, ηN

$\Delta(1750)$ BREIT-WIGNER MASS

NODE=B145M

NODE=B145M

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1712 ± 1	PENNER	02C	DPWA	Multichannel
1721 ± 61	VRANA	00	DPWA	Multichannel

$\Delta(1750)$ BREIT-WIGNER WIDTH

NODE=B145W

NODE=B145W

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
643 ± 17	PENNER	02C	DPWA	Multichannel
70 ± 50	VRANA	00	DPWA	Multichannel

$\Delta(1750)$ DECAY MODES

NODE=B145215;NODE=B145

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$N\pi$	seen	DESIG=1;OUR EVAL
Γ_2	$N(1440)\pi$	seen	DESIG=3;OUR EVAL
Γ_3	ΣK	seen	DESIG=4;OUR EVAL

$\Delta(1750)$ BRANCHING RATIOS

NODE=B145220

$\Gamma(N\pi)/\Gamma_{total}$ Γ_1/Γ

NODE=B145R1
NODE=B145R1

VALUE (%)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1 ± 1	PENNER	02C	DPWA	Multichannel
6 ± 9	VRANA	00	DPWA	Multichannel

$\Gamma(N(1440)\pi)/\Gamma_{total}$ Γ_2/Γ NODE=B145R3

VALUE (%)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
83±1	VRANA	00	DPWA	Multichannel

NODE=B145R3

$\Gamma(\Sigma K)/\Gamma_{total}$ Γ_3/Γ NODE=B145R4

VALUE (%)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.1±0.1	PENNER	02C	DPWA	Multichannel

NODE=B145R4

Δ(1750) BREIT-WIGNER PHOTON DECAY AMPLITUDES NODE=B145225

Papers on γN amplitudes predating 1981 may be found in our 2006 edition, Journal of Physics **G33** 1 (2006). NODE=B145225

$\Delta(1750) \rightarrow N\gamma$, helicity-1/2 amplitude $A_{1/2}$ NODE=B145A1

VALUE ($GeV^{-1/2}$)	*DOCUMENT ID*		*TECN*	*COMMENT*
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.053	PENNER	02D	DPWA	Multichannel

NODE=B145A1

Δ(1750) REFERENCES NODE=B145

PDG	06	JP G33 1	W.-M. Yao *et al.*	(PDG Collab.)	REFID=51004
ARNDT	04	PR C69 035213	R.A. Arndt *et al.*	(GWU, TRIU)	REFID=49947
PENNER	02C	PR C66 055211	G. Penner, U. Mosel	(GIES)	REFID=49129
PENNER	02D	PR C66 055212	G. Penner, U. Mosel	(GIES)	REFID=49130
VRANA	00	PRPL 328 181	T.P. Vrana, S.A. Dytman, T.-S.H. Lee	(PITT, ANL)	REFID=47593